National Aeronautics and Space Administration



## Radiation-Hardened Electronics for Space Environments (RHESE)

NASA's RHESE Project advances the state-of-the-art in high-performance, radiation-hardened electronics that enable long-term, reliable vehicle operation in the extreme radiation and temperature environment of space and the lunar surface.



## RHESE Project tasks include:

Model for Radiation Effects on Electronics: Develop advanced models of the natural radiation environment to diagnose and predict the effects of Single Event Effects (SEEs) on modern electronic architectures.

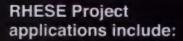
## Reconfigurable Computers:

Provide reconfigurable computing capabilit resulting in reduction of flight spares and risk reduction for limited circuit lifetimes.

> SEE-Injuryme Resembly on able Finish Programmable Gale Arter (FPG/ Develop it Sulport in Section 1986)

## SiGu Integrated Electronics for Extreme Environments:

Develop modular mission-critical electronic components to operate reliably in the space environment on spacecraft extremities.



Orion

Extra Vehicular Activities

Surface Systems



Advance the performance and power efficiency of radiation-hardened processors to meet. He demands of autonomous capabilities such as funding and hazard avoidance confloration and documental surface system parecastion.

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